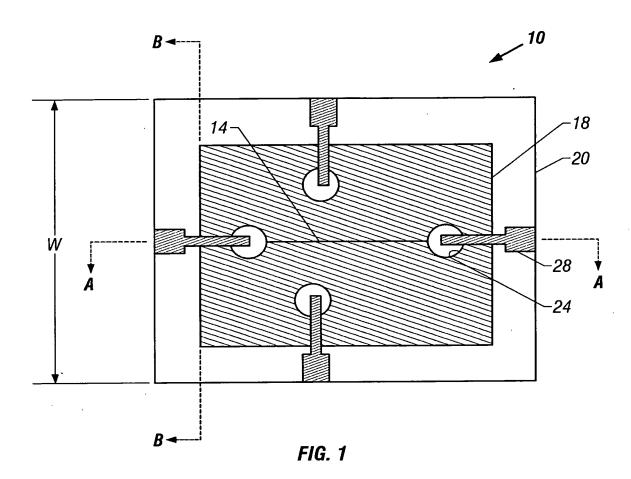
Invariant Mingqi ZHAO et al. App. Mon No.: 09/939,327 Docket No.: 427922000920



1/19



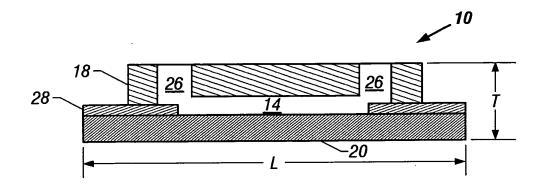


FIG. 2

In Tr: Mingqi ZHAO et al. Application No.: 09/939,327 Docket No.: 427922000920



Sheet 2 of 19

2/19

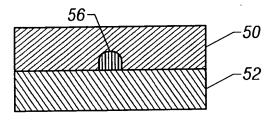


FIG. 3A

70 \

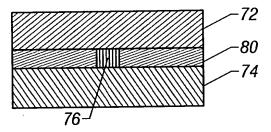


FIG. 3B



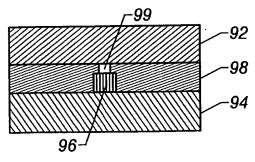


FIG. 3C

ELECTRODES

Inv Mingqi ZHAO et al. Application No.: 09/939,327 Docket No.: 427922000920



3/19

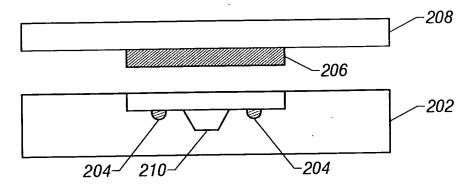


FIG. 4A

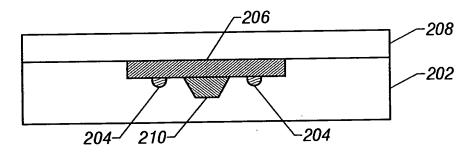
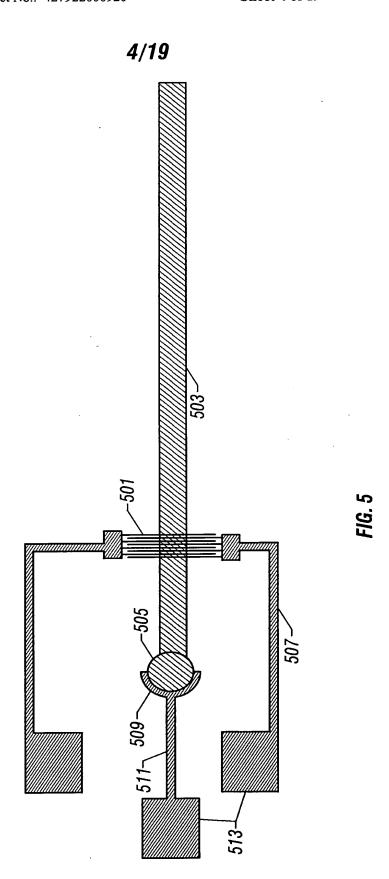


FIG. 4B

Title: MICROFLUIDIC CHIP HAVING INTEGRATED
ELECTRODES
Inv. Mingqi ZHAO et al.
Application No.: 09/939,327
Docket No.: 427922000920
Sheet 4



Sheet 4 of 19





5/19

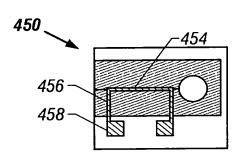


FIG. 6A

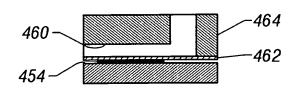


FIG. 6B

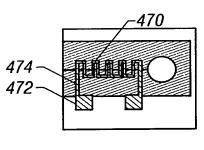


FIG. 6C

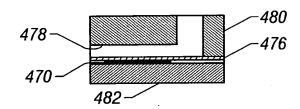


FIG. 6D

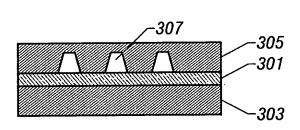


FIG. 7A

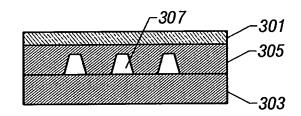


FIG. 7B

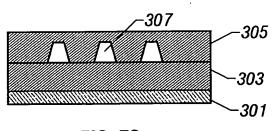


FIG. 7C

Title: MICROFLUIDIC CHIP HAVING INTEGRATED EXECTRODES

Invertigation No.: 09/939,327 Docket No.: 427922000920



6/19

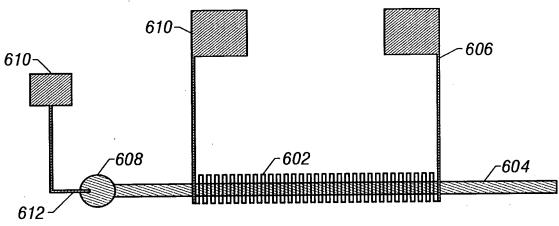


FIG. 8

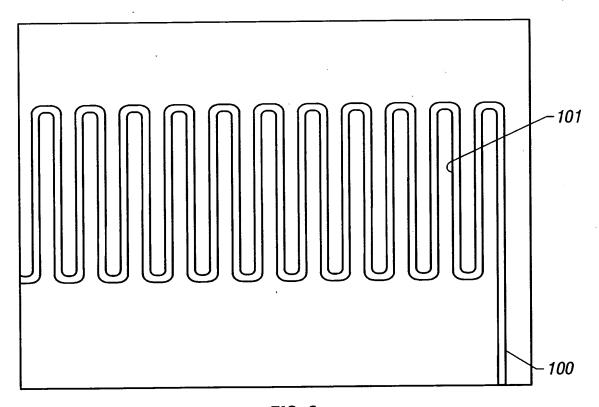


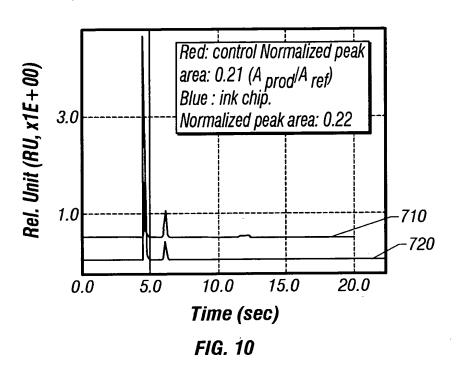
FIG. 9

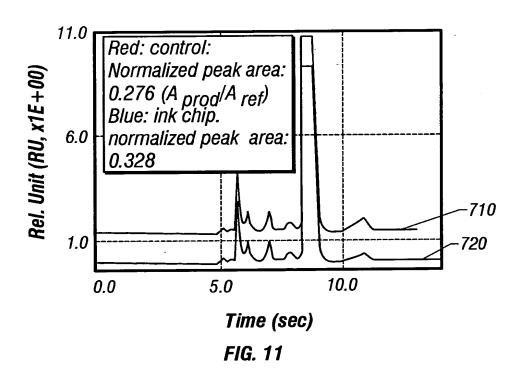
ELECTRODES

Inve Mingqi ZHAO et al. Appin on No.: 09/939,327 Docket No.: 427922000920

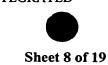


7/19

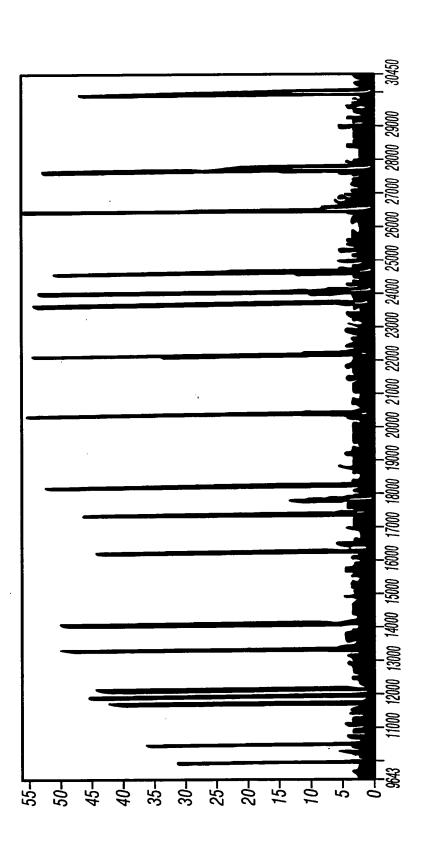




Docket No.: 427922000920



8/19



Title: MICROFLUIDIC CHIP HAVING INTEGRATED

Invent Ringqi ZHAO et al. Application No.: 09/939,327 Docket No.: 427922000920

Sheet 9 of 19

9/19

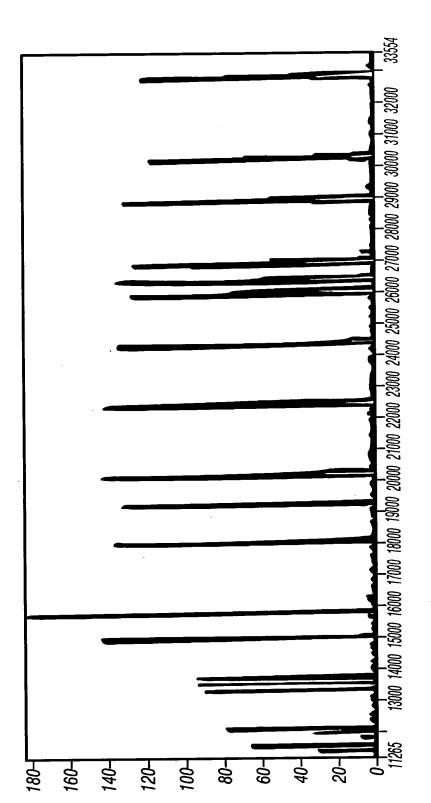


FIG. 12B

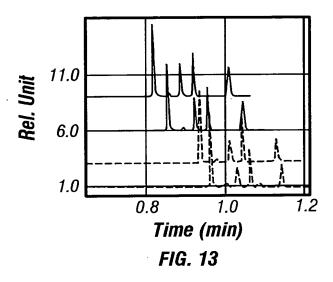
Title: MICROFLUIDIC CHIP HAVING INTEGRATED ELECTRODES

Inversion Mingqi ZHAO et al. Application No.: 09/939,327

Docket No.: 427922000920



10/19



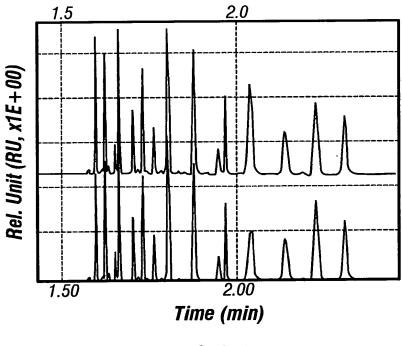


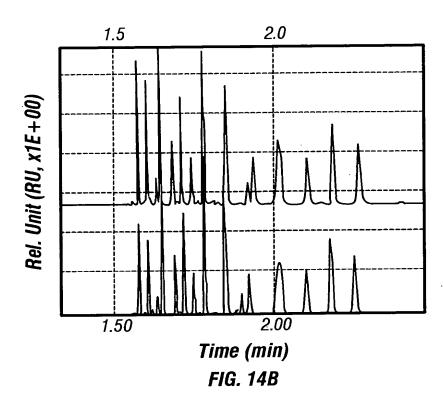
FIG. 14A

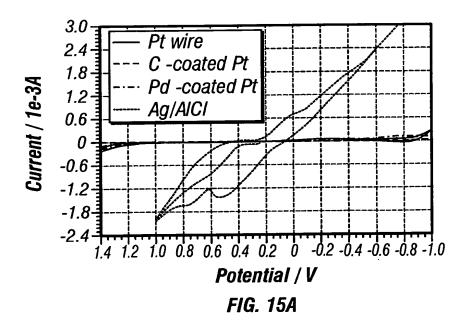
ELECTRODES

Invent lingqi ZHAO et al. Application No.: 09/939,327 Docket No.: 427922000920



11/19

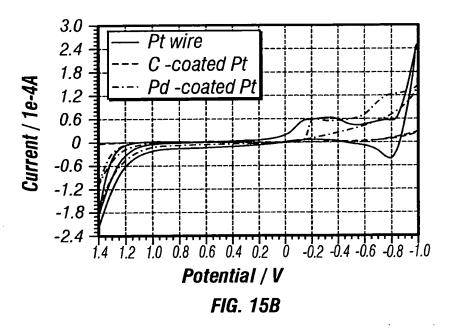


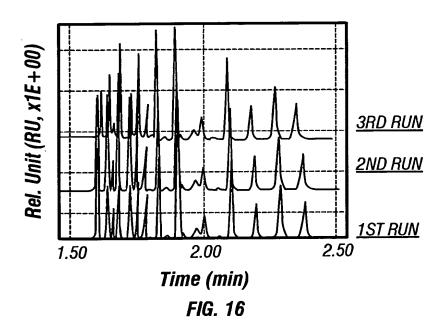


ELECTRODES
Inv. Mingqi ZHAO et al.
Application No.: 09/939,327
Docket No.: 427922000920



12/19





ELECTRODES



13/19

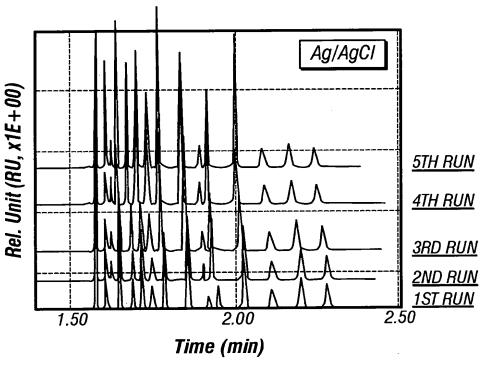


FIG. 17

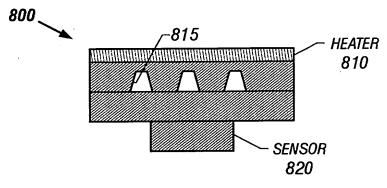


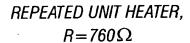
FIG. 18

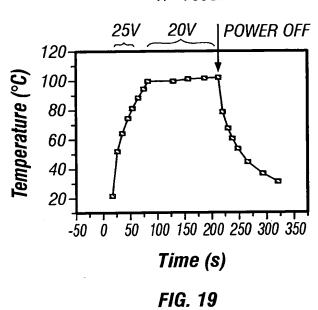
Invention Ingqi ZHAO et al. Application No.: 09/939,327

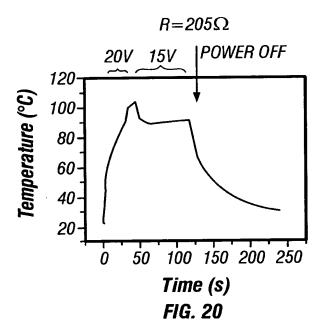
Application No.: 09/939,327 Docket No.: 427922000920



14/19





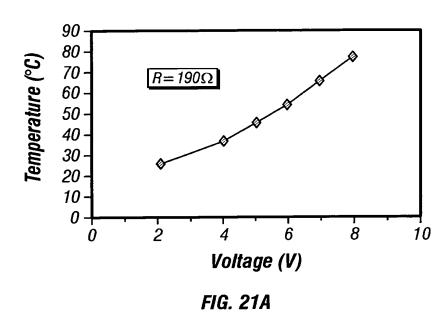


ELECTRODES
Inv Mingqi ZHAO et al.
Application No.: 09/939,327

Docket No.: 427922000920

Sheet 15 of 19

15/19



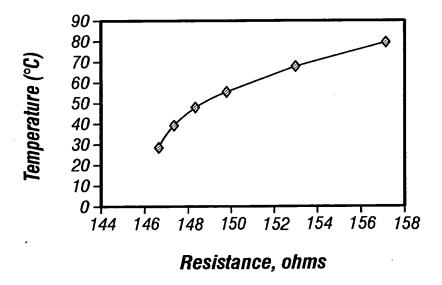


FIG. 21B

htor: Mingqi ZHAO et al. Application No.: 09/939,327 Docket No.: 427922000920



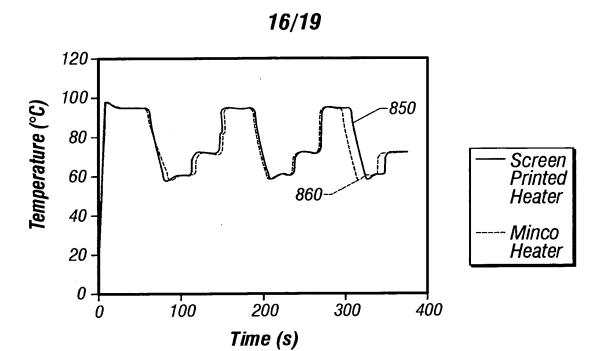
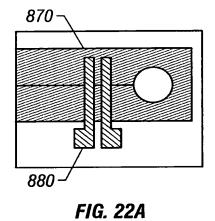
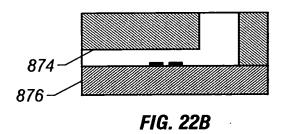


FIG. 21C





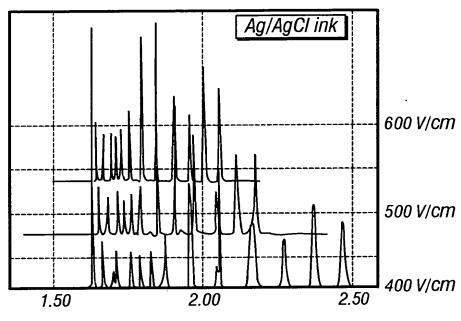
The first of the first of the state of the s

Title: MICROFLUIDIC CHIP HAVING INTEGRATED

: Mingqi ZHAO et al. tion No.: 09/939,327 Docket No.: 427922000920

Sheet 17 of 19

17/19



Time (min)

FIG. 23

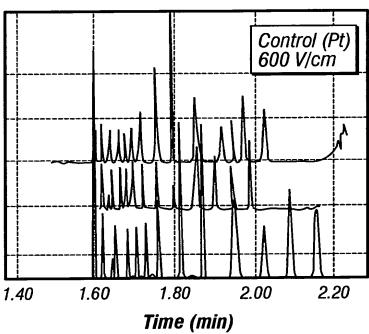


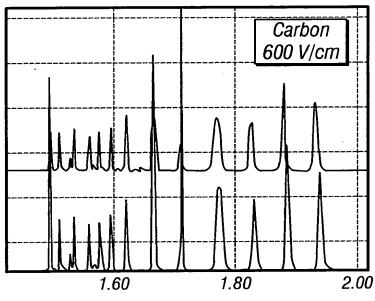
FIG. 24A

ELECTRODES In a r: Mingqi ZHAO et al. Apprication No.: 09/939,327

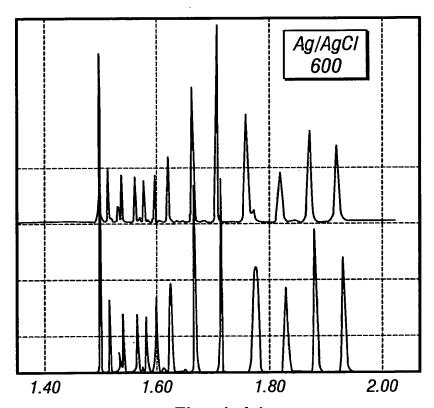
Docket No.: 427922000920

Sheet 18 of 19

18/19



Time (min) FIG. 24B



Time (min)

FIG. 24C

ELECTRODES

Vertor: Mingqi ZHAO et al. Acation No.: 09/939,327 Docket No.: 427922000920

Sheet 19 of 19

19/19

				_ 1		_			6	,_1					
Resolution	//2	Ink		0.79	1.18	1.30	1.44	0.90	13.70	90.0	9.03	6.73	6.55	0.27	2.93
		Ы		1.58 1.51 6.80 0.19 0.27 0.22 1.61 2.45 0.15 0.13 25.18 2.79 1.01 0.81 25.92 0.70	1.54 7.08 0.18 0.34 0.37 4.80 3.40 0.17 0.15 27.95 0.98 1.36 1.08 19.80 1.18	1.56 7.40 0.23 0.30 0.25 3.57 2.77 0.21 0.18 30.71 2.40 1.38 1.04 27.73 1.30	1.65 1.58 7.49 0.22 0.26 0.22 3.28 1.57 0.17 0.16 23.50 4.94 1.05 0.89 13.48 1.44	1.67 1.60 7.73 0.22 0.30 0.27 4.16 2.37 0.20 0.18 25.84 2.82 1.32 0.86 44.60 0.90	1.70 1.62 7.98 0.22 0.48 0.41 0.29 5.20 0.23 0.20 27.30 2.42 1.51 0.81 70.08 13.70	63.05	1.80 1.71 8.85 0.37 0.63 0.59 5.03 6.99 0.10 0.08 34.24 6.73 2.17 1.07 33.52 9.03	1.86 1.77 9.45 0.72 1.54 1.42 2.98 1.25 0.76 0.53 30.56 29.77 1.99 1.03 30.19 6.73	1.92 1.82 10.07 0.50 0.75 0.71 0.64 1.02 0.49 0.46 39.83 21.75 1.59 1.00 47.68 6.52	1.87 10.64 0.41 1.20 1.18 0.33 0.23 0.47 0.42 37.31 10.72 1.72 1.04 45.94 0.27	29.69
	age	Ink		0.81	1.08	1.04	0.89	0.86	0.81	1.14	1.07	1.03	1.00	1.04	0.92
	Average	Pt Ink		1.01	1.36	1.38	1.05	1.32	1.51	2.04	2.17	1.99	1.59	1.72	1.57
Half Peak Width		Ink	4.60	2.79	0.98	2.40	4.94	2.82	2.42	1.91	6.73	29.77	21.75	10.72	6.85
	<i>/\)</i>	Pt Ink Pt Ink Pt Ink Pt Ink Pt Ink Pt Ink	33.81	25.18	27.95	30.71	23.50	25.84	27.30	26.68	34.24	30.56	39.83	37.31	35.82
	age	Ink	0.12	0.13	0.15	0.18	0.16	0.18	0.20	0.22	0.08	0.53	0.46	0.42	0.42
	Average	Pt	0.15	0.15	0.17	0.21	0.17	0.20	0.23	0.25	0.10	92.0	0.49	0.47	0.49
Normalized Peak Height		Ink	4.74	2.45	3.40	2.77	1.57	2.37	5.20	0.54	6.39	1.25	1.02	0.23	0
	20	Pt	2.81	1.61	4.80	3.57	3.28	4.16	0.29	4.52	5.03	2.98	0.64	0.33	0.00
	Average	ΙΙΚ	0.56	0.22	0.27	0.25	0.22	0.27	0.41	0.88	0.59	1.42	0.71	1.18	1.00
	Aver	Pt	0.69	0.27	0.34	0.30	0.26	0.30	0.48	1.01	0.63	1.54	0.75	1.20	1.00
Migration Time (min)		Ink	0.19	0.19	0.18	0.23	0.22	0.22	0.22	0.21	0.37	0.72	0.50	0.41	0.44
	び	Pt	6.61	6.80	2.08	7.40	7.49	7.73	7.98	8.41	8.85	9.45	10.07	10.64	11.08
	Average	ž!	1.50	1.51	1.54	1.56	1.58	1.60	1.62	1.67	1.71	1.77	1.82	1.87	1.92
	Aver	Pt	1.56 1.50 6.61 0.19 0.69 0.56 2.81 4.74 0.15 0.12 33.81 4.60	1.58	1.61	1.63	1.65	1.67	1.70	1.75 1.67 8.41 0.21 1.01 0.88 4.52 0.54 0.25 0.22 26.68 1.91 2.04 1.14 63.05 0.06	1.80	1.86	1.92	1.98	2.04
eTag Probes (-FC)			163	158	33	56	25	174	1	187	188	189	190	191	192 2.04 1.92 11.08 0.44 1.00 1.00 0.00 0 0.49 0.42 35.82 6.85 1.57 0.92 29.69 2.93